

IN THE CLAIMS

Please amend the claims as follows:

1. **(Currently Amended)** A capacity control valve comprising:

a solenoid portion;

a tube placed in said solenoid portion;

a movable core, wherein said moveable core forms a slide surface and a non-contact surface on the an outer diameter surface thereof, wherein said slide surface is fitted to said tube, wherein the a diameter of said non-contact surface is formed smaller than a the diameter of said slide surface, wherein the an axial length of said slide surface is ~~formed~~ shorter than the an axial length of said non-contact surface;

a solenoid rod portion, ~~wherein said solenoid rod portion is~~ coupled to said movable core and which forms a joint an abutting surface on the a free end portion of said solenoid rod portion placed opposite to said movable core;

a fixed core, ~~wherein said fixed core forms~~ which defines an inner bore and is placed in an opposing manner against said movable core, the inner bore loosely fitted to said solenoid rod portion; and

an actuation rod, ~~wherein said actuation rod forms an abutting face~~ having a joint portion and a valve body, the ~~abutting face~~ joint portion being engaged with said ~~joint~~ abutting surface of said solenoid rod portion, the valve body opening or closing a control fluid passage hole;

wherein either one of said joint surface of said solenoid rod portion ~~or~~ and said abutting face of said actuation rod ~~is formed~~ has a concave cone-shape surface while the other ~~is formed~~ has a convex cone-shape portion,

wherein said solenoid rod portion and said actuation rod are separate members that abut against each other,

and wherein the concave cone-shape surface abutting against the convex cone-shape portion provides secure retainment and is free of any fluctuation as the actuation rod securely holds the free end portion of the solenoid rod portion, which is connected to the movable core.

2. **(Withdrawn)** A capacity control valve according to claim 1, wherein a bottom face of said concave cone-shape surface is formed as a wide area of either a planar surface or a circular cross section, wherein a head portion of said convex cone-shape portion is truncated to form a truncated cone surface, the truncated cone surface corresponding to the bottom face of said concave cone-shape surface;

3. **(Withdrawn)** A capacity control valve according to claim 1 or claim 2, wherein a cone angle β of said concave cone-shape surface is formed larger than a cone angle α of said convex cone-shape portion by 0.5 to 6 degrees.

4. **(Withdrawn)** A capacity control valve according to claim 1, wherein said concave cone-shape surface abuts against the convex cone-shape portion of said actuation rod before said solenoid rod portion contacts the inner bore of said fixed core.

5. **(Original)** A capacity control valve according to claim 1, wherein the slide surface is placed on the end portion of said outer diameter surface of said movable core and the axial length of the slide surface is not more than one quarter of the total length of the outer diameter surface.

6. **(Withdrawn)** A capacity control valve according to claim 1,
wherein the slide surface is formed to have a bight cross section.